## WHAT WE CLAIM IS:

SUB

1. An alternator for a vehicle, comprising two pole pieces having interlaced poles and at least one magnet, the poles exhibiting grooves profiled along an axis and accommodating the magnet, the profile completely preventing the magnet escaping from the grooves in a plane perpendicular to the axis, which comprises a strip interposed between one face of the magnet and at least one of the grooves, the strip being produced from a material which is less hard than the magnet.

the alternator as claimed in claim 1, wherein the strip is interposed between the magnet and each of the groves.

3. The alternator as claimed in claim 1 wherein the strip covers over one circumferential face of the magnet.

The alternator as claimed in claim 3, wherein the circumferential face is oriented in a direction opposite to a shaft of the alternator.

- 25 5. The alternator as claimed in claim 1, which comprises two strips interposed between respective opposed faces of the magnet and at least one of the grooves.
- 30 6. The alternator as claimed in claim 1, wherein the profile of each groove is "U"-shaped.
- 7. The alternator as claimed in claim 1, wherein the profile of each groove is "V"-shaped, the "V" profile having one branch which is locally parallel to a circumferential face of the poles.

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8. The alternator as claimed in claim 7, wherein the "V" profile exhibits two branches, the said parallel branch being closer to a shaft of the alternator than the other branch.

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9. The alternator as claimed in claim 1, which comprises a layer of adhesive which is more flexible than the magnet and is interposed between the strip and the magnet.

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10. The alternator as claimed in claim 9, wherein the magnet includes two separate parts bonded to one another by a layer of material which is more flexible than the magnet.

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11. The alternator as claimed in claim 10, wherein the said material is identical to the said adhesive.

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12. The alternator as claimed in claim 1, which comprises several magnets, at least two of the magnets being associated with respective strips.

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- 13. The alternator as claimed in claim 12, wherein a majority of the magnets, preferably all the magnets, are associated with respective strips.
- 14. The alternator as claimed in claim 12, wherein the strips of the respective magnets are independent of one another.

